

United States Government

Department of Energy

# memorandum

DATE: January 27, 2005

REPLY TO  
ATTN OF: SC-20

SUBJECT: Request to Conduct a Review of the Tevatron Operations at Fermi National Accelerator Laboratory

TO: Mr. Daniel Lehman, Director, Construction Management Support Division, SC-81

This memorandum is to request that you organize and conduct a review of the Tevatron Operations on March 29–31, 2005 at Fermilab. The purpose of this review is to evaluate the past performance, and the resource requirements and management practices needed to effectively support its research missions for FY 2005–FY 2009.

The High Energy Physics program supports the Tevatron program at Fermi National Accelerator Laboratory (FNAL), carrying out the world-class research program at the energy frontier. The Tevatron program includes the operation of and performance improvements to the Tevatron accelerator complex and the operation of both the collider detectors and the neutrino experiment.

One of the major components of Tevatron Operations is the luminosity improvement. The scope of the review should include the assessment of the performance of the Tevatron collider since the review in February 2004 and the evaluation of the remaining luminosity improvement plan.

The committee should address the following specific items:

1. Has the laboratory successfully executed its plans for the operations of the accelerator and detectors and for the luminosity improvement during past year?
2. Does the laboratory have plans to effectively achieve the goals of the Run II and neutrino programs?
3. Have adequate resources (i.e. manpower, funding, etc.) been identified and allocated to carry out the plans?
4. Are there any programmatic, technical and infrastructure risks? Has the laboratory developed an adequate risk analysis with identified fallback plans?
5. Is the laboratory management effectively setting priorities, tracking progress, and resolving problems for a successful execution of the proposed plans?

6. The committee is also asked to assess the laboratory's responses to the comments and recommendations from the February 2004 Tevatron luminosity review and from the March 2004 Tevatron Operations review.

Michael Procario is the program manager for Fermilab in this office and will serve as the OHEP contact person for the review.

We appreciate your assistance in this matter. As you know, these reviews play an important role in our program. I look forward to receiving your Committee's formal report within 60 days of the review.

/s/

Robin Staffin  
Associate Director  
Office of High Energy Physics

cc:

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